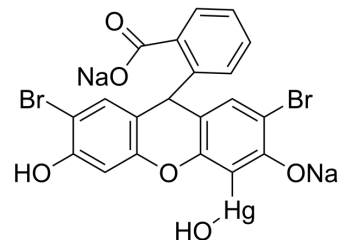


Merbromin

Cat. No.:	HY-B0961
CAS No.:	129-16-8
Molecular Formula:	C ₂₀ H ₁₀ Br ₂ HgNa ₂ O ₆
Molecular Weight:	752.67
Target:	Flavivirus
Pathway:	Anti-infection
Storage:	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 6.67 mg/mL (8.86 mM; Need ultrasonic)																					
	<table border="1"> <thead> <tr> <th rowspan="2">Solvent</th> <th rowspan="2">Mass</th> <th colspan="3">Concentration</th> </tr> <tr> <th>1 mg</th> <th>5 mg</th> <th>10 mg</th> </tr> </thead> <tbody> <tr> <td rowspan="4">Preparing Stock Solutions</td> <td>1 mM</td> <td>1.3286 mL</td> <td>6.6430 mL</td> <td>13.2860 mL</td> </tr> <tr> <td>5 mM</td> <td>0.2657 mL</td> <td>1.3286 mL</td> <td>2.6572 mL</td> </tr> <tr> <td>10 mM</td> <td>---</td> <td>---</td> <td>---</td> </tr> </tbody> </table>	Solvent	Mass	Concentration			1 mg	5 mg	10 mg	Preparing Stock Solutions	1 mM	1.3286 mL	6.6430 mL	13.2860 mL	5 mM	0.2657 mL	1.3286 mL	2.6572 mL	10 mM	---	---	---
Solvent	Mass			Concentration																		
		1 mg	5 mg	10 mg																		
Preparing Stock Solutions	1 mM	1.3286 mL	6.6430 mL	13.2860 mL																		
	5 mM	0.2657 mL	1.3286 mL	2.6572 mL																		
	10 mM	---	---	---																		
		Please refer to the solubility information to select the appropriate solvent.																				
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 0.67 mg/mL (0.89 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 0.67 mg/mL (0.89 mM); Clear solution 																					

BIOLOGICAL ACTIVITY

Description	Merbromin acts as a topical antiseptic for minor cuts and scrapes and as a biological dye. Merbromin is a potent inhibitor against Zika virus (ZIKV) replication. Merbromin shows anti-ZIKV potency through ZIKVpro inhibition ^[1] .
--------------------	---

REFERENCES

[1]. Xiangling Cui , et al. Identification of Theaflavin-3,3'-Digallate as a Novel Zika Virus Protease Inhibitor. Front Pharmacol. 2020 Oct 21;11:514313.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA